NIGHT ATTENDANCE INFORMATION SYSTEM DEVELOPMENT AT INTERNATIONAL ISLAMIC BOARDING SCHOOL KH MAS MANSYUR

This Final Project Compiled as a Condition to Complete Bachelor Degree Program at Department of Informatics Faculty of Communication and Informatics

Submitted by:

HAFIZH HUMAN PURWANDA

L 200 144 005

DEPARTMENT OF INFORMATICS

FACULTY OF COMMUNICATION AND INFORMATICS

UNIVERSITAS MUHAMMADIYAH SURAKARTA

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APPROVAL PAGE

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By :

HAFIZH HUMAN PURWANDA

L 200 144 005

Have been inspected and approved to be tested by:

Supervisor

Fajar Suryawan, S.T, M.Eng.Sc.,Ph.D.

NIK. 924

VALIDATION PAGE

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By:

Hafizh Human Purwanda

L 200 144 005

It has beeb defended in fron of Examiners
Faculty of Communication and Informatics
Universitas Muhammadiyah Surakarta
at January 18, 2019
and declared to qualify

Examiner:

1. **Fajar Suryawan, S.T, M.Eng.Sc.,Ph.D.** (.....)
   (Chief of Examiners Board)
2. **Aris Rakhmadi, ST, M.Eng** (.....)
   (Member I of Examiners Board)
3. **Bana Handaga, PhD** (.....)
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Fakultas Komunikasi dan Informatika

Nurgiyatna, S.T., M.Sc., Ph.D.
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PROGRAM STUDI INFORMATIKA
Jl. A Yani Tromol Pos 1 Pabelan Kartasura Telp. (0271)717417, 719483 Fax (0271) 714448
Surakarta 57102 Indonesia. Web: http://informatika.ums.ac.id. Email: informatika@ums.ac.id

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NIM	:	**L200144005**
Judul	:	NIGHT ATTENDACE INFORMATION SYSTEMDEVELOPMENT AT INTERNATIONAL ISLAMIC BOARDING SCHOOL KH MAS MANSYUR
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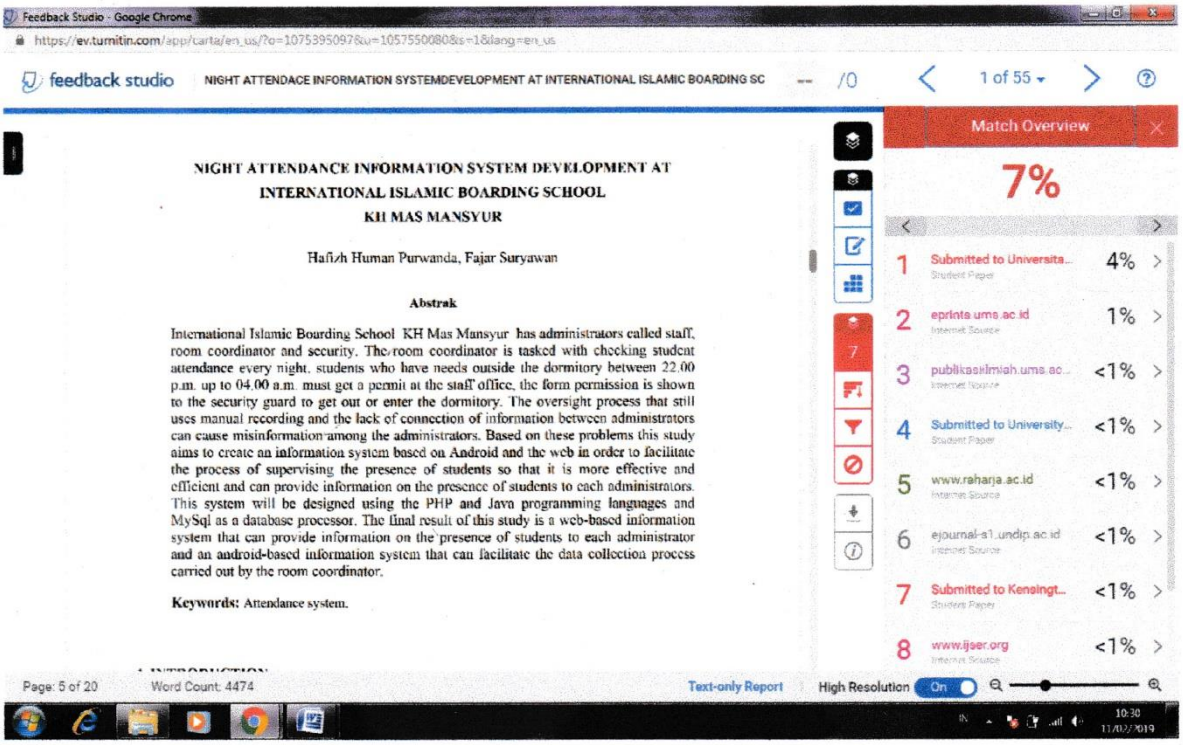


NIGHT ATTENDANCE INFORMATION SYSTEM DEVELOPMENT AT INTERNATIONAL ISLAMIC BOARDING SCHOOL KH MAS MANSYUR

Hafizh Human Purwanda, Fajar Suryawan

Abstrak

International Islamic Bourding School KH Mas Mansyur has administrators called staff, room coordinator and security. The room coordinator is tasked with checking student attendance every night. students who have needs outside the dormitory between 22.00 p.m. up to 04.00 a.m. must get a permit at the staff office, the form permission is shown to the security guard to get out or enter the dormitory. The oversight process that still uses manual recording and the lack of connection of information between administrators can cause misinformation among the administrators. Based on these problems this study aims to create an information system based on Android and the web in order to facilitate the process of supervising the presence of students so that it is more effective and efficient and can provide information on the presence of students to each administrators. This system will be designed using the PHP and Java programming languages and MySql as a database processor. The final result of this study is a web-based information system that can provide information on the presence of students to each administrator and an android-based information system that can facilitate the data collection process carried out by the room coordinator.

Keywords: Attendance system.

NIGHT ATTENDANCE INFORMATION SYSTEM DEVELOPMENT AT INTERNATIONAL ISLAMIC BOARDING SCHOOL KH MAS MANSYUR

Abstrak

Pondok Pesantren Internasional KH Mas Mansyur memiliki pengurus yang disebut Staf, Room coordinator dan Security. Room coordinator bertugas memeriksa kehadiran Santri setiap malam. Santri yang memiliki kebutuhan di luar Asrama antara pukul 22.00 hingga pukul 04.00 , harus mendapatkan izin di Kantor Staf, formulir izin ditunjukkan kepada Security untuk keluar atau masuk Asrama. Proses pengawasan yang masih menggunakan catatan manual dan kurangnya koneksi informasi antara Pengurus dapat menyebabkan kesalahan informasi. Berdasarkan masalah tersebut penelitian ini bertujuan untuk membuat sistem informasi berbasis android dan web agar dapat memfasilitasi proses pengawasan kehadiran Santri sehingga lebih efektif dan efisien serta dapat memberikan informasi tentang keberadaan Santri kepada setiap Pengurus. Sistem ini akan dirancang menggunakan bahasa pemrograman PHP dan Java, serta MySql sebagai pengolah basis data. Hasil akhir dari penelitian ini adalah sistem informasi berbasis web yang dapat memberikan informasi tentang keberadaan Santri untuk setiap Pengurus dan sistem informasi berbasis android yang dapat memfasilitasi proses pengecekan Santri yang dilakukan oleh Room coordinator.

Kata kunci: *System kehadiran, Aplikasi android, Aplikasi web*

Abstract

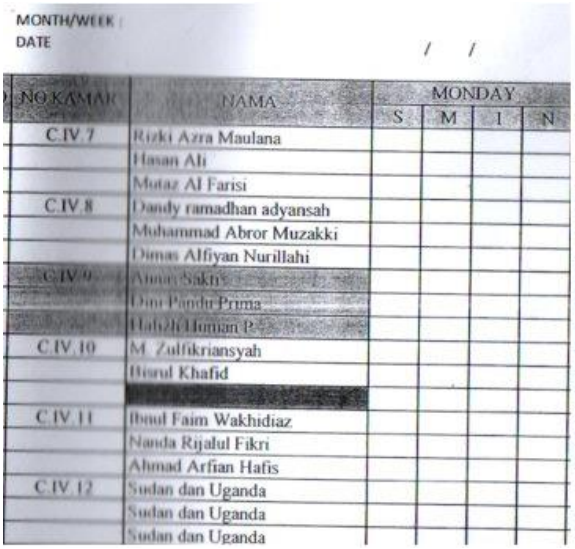
International Islamic Boarding School KH Mas Mansyur has administrators called Staff, Room coordinator and Security. The room coordinator is tasked with checking Students attendance every night. Students who have needs outside the dormitory between 22.00 up to 04.00 must get a permit at the Staff Office, the form permission is shown to the Security to get out or enter the Dormitory. The oversight process that still uses manual recording and the lack of connection of information between Administrators can cause misinformation among the Administrators. Based on these problems this study aims to create an information system based on Android and the web in order to facilitate the process of supervising the presence of Students so that it is more effective and efficient and can provide information on the presence of Students to each Administrators. This system will be designed using the PHP and Java programming languages and MySql as a database processor. The final result of this study is a web-based information system that can provide information on the presence of students to each administrator and an android-based information system that can facilitate the data collection process carried out by the Room coordinator.

Keywords: *Attendance system, Android apps, Web apps*

1. INTRODUCTION

Information system is a system within an organization that helps the needs of daily transaction process. It helps and supports operational activities. Information is a managerial necessity in an organization and it helps to facilitate the provision of reports as needed. (Erwan Arbie, 2000, 35). According to Mc Leod, Information systems are systems that have the ability to gather information from all sources and use various media to display the information.

International Boarding School Pesma KH Mas Mansyur (Pesma) is one of the institution and unit of Universitas Muhammadiyah Surakarta. Pesma accommodates 576 students in total(Fahmi, 2018). This boarding school has administrators called Staff, Room coordinator and Security. Room coordinators are people who are responsible for overseeing the presence of Students in the night by conducting routine checks into the Student's room. Data of the Student's presence is still stored manually using paper as shown in Figure 1.

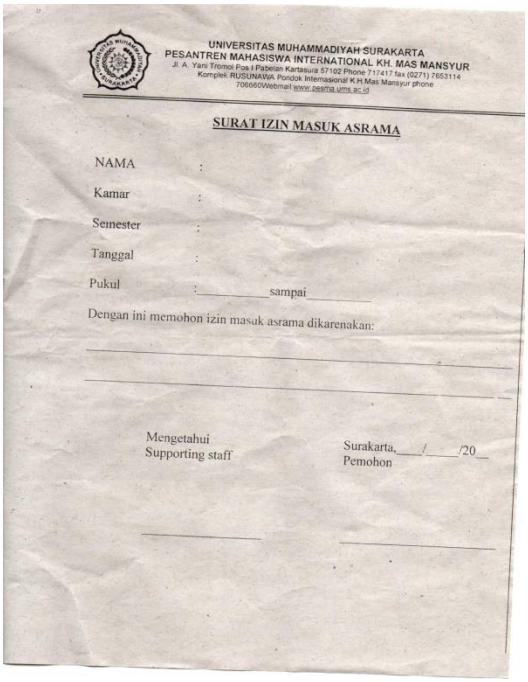


MONTH/WEEK :
DATE / /

NO KAMAR	NAMA	MONDAY			
		S	M	I	N
C.IV.7	Rizki Azra Maulana				
	Hasan Ali				
	Mutaz Al Farisi				
C.IV.8	Dandy ramadhan adyansah				
	Muhammad Abror Muzakki				
	Dimas Alfiyan Nurillahi				
C.IV.9	Anas Sakti				
	Dini Pandu Prima				
	Habibi Humian P.				
C.IV.10	M. Zulfikriansyah				
	Bisrul Khafid				
C.IV.11	Ibnul Faim Wakhidiaz				
	Nanda Rijalul Fikri				
	Ahmad Arfian Hafis				
C.IV.12	Sudan dan Uganda				
	Sudan dan Uganda				
	Sudan dan Uganda				

Figure 1. Manual Recording.

International Islamic boarding school KH Mas Mansyur has special regulations for student who wants to go outside from the dorm at 10:00 p.m. to 04:00 a.m. The student is required to take a permit letter in the Staff Office which will be shown to the Security as a condition to get out and to enter the dormitory. Permission Form is shown in Figure 2.



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PESANTREN MAHASISWA INTERNATIONAL KH. MAS MANSYUR
Jl. A. Yani Tromol Pos I Pabelan Kartasura 57102 Phone 717417 fax (0271) 7653114
Komplek RUSUNAWA Pondok Internasional K.H Mas Mansyur phone
706660Webmail:www.pesma.ums.ac.id

SURAT IZIN MASUK ASRAMA

NAMA :
Kamar :
Semester :
Tanggal :
Pukul : _____ sampai _____

Dengan ini memohon izin masuk asrama dikarenakan:

Mengetahui
Supporting staff

Surakarta, ___/___/20__
Pemohon

Figure 2. Permission form.

The misinformation of students night attendance at International Islamic Boarding School of KH Mas Mansyur is unintegrated the data obtained from each administrator. Information on students who take permission at the staff office cannot be received directly by room coordinator. So that it may cause errors in process of checking attendance by room coordinator. Furthermore, staff and room coordinators were also unable to find out information from the security guard when students have returned to the dormitory.

The purpose of this study is to design an information system that can collect all information related to the presence of student from each administrators and can directly display the collected data and can help the process of checking the presence of students.

2. METHOD

The research method used is the Waterfall Model, the waterfall model is one of the software development models contained in the SDLC (Sequencial Development Life Cycle) model. According to Sukamto and Shalahuddin (2013: 26) "SDLC is the process of developing or changing a software system by using models and methodologies that people use to develop previous software systems, based on best practices or ways that have been well tested. " According to Sukamto and Shalahuddin (2013: 28), The waterfall model is also often called a linear sequencing model or classical life flow. System development is done sequentially starting from analysis, design, coding, testing and supporting stages.

The misinformation of night attendance of students at International Islamic Boarding School of KH Mas Mansyur is that the data obtained from each administrator is not integrated. Information on students who take permission at the staff office cannot be received directly by room coordinator. So that it may cause errors in process of checking attendance by room coordinator. Furthermore, staff and room coordinators were also unable to find out information from the security when students had returned to the dormitory.

2.1 Typical usage Scenario

To integrate data from each administrator, the new system is required to be able to connect the student's information to each administrator. Android devices are needed to help the process of checking the presence of students by room coordinators and the web based system is needed to be able to integrate student's information to the other administrators.

In designing this information system, the room coordinator can change the status of student through an android device. The status of student is given to facilitate the process of checking the attendance of student by the room coordinator. Explanation for student status can be seen below.

Table 1. Student Status.

Status	Time	Note
Free	04.00 am – 22.00 pm	• This status will be updated from "free" to be "unchecked" at 22.00 pm • This status will become "out with permission" if the student is taking permission before 22.00 pm.
Uncheck	22.00 pm – 04.00 am	• This status can be updated to "on pesma" or "without permissions" by room coordinator. • This status will be updated to "free" at 04.00 am. • "Uncheck" is the status for students when not checked by the room coordinator
On pesma	22.00 pm – 04.00 am	• This status can change to "out with permission" if students take permission. • This status will be updated to "free" at 04.00 am. • This status can be updated by room coordinator to be "without permission" if the students leave the dormitory without permission. • This status is given after the room coordinator checks the student's room and the student is in the dormitory
Without Permission	22.00 pm – 04.00 am	• This status can change to "late" if students take permission. • This status can be updated to "on pesma" by room coordinator. • At 04.00 am this status will be "banned" and the student won't be able take permission. • This status is given to student who is leaving the dorm without permission at night
Late	22.00 pm – 04.00 am	• This status can be updated to become "on pesma" when students have returned to the dormitory. • This status is given to students when the concerned takes permission after the room supervisor checks.

. . . Table 1. Student Status.

Out with permission	-	• This status can be updated to be "on pesma" when students have returned to the dormitory. • This status was given when the students in question had taken permission
Banned	-	• This status can be updated to be "free" after the student in question reports to the staff. • Students who are banned cannot get permission.

Students can take permission with an Android device or web base system. Students can also get permission through administrators such as room coordinator, security or staff. Students who have taken permission are allowed to leave the dormitory by reporting to the security post. The security will verify the identity of the student who wants to leave the dormitory with the identity of the student who permit through the web base system. The security is also tasked with verifying the students who return to the dormitory at night with the identity of students who took permission on the web base system.

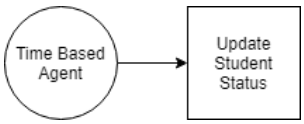


Figure 3. Usage scenario for time based agent.

Based on the data contained in Table 1, the time base agent will change the status of students every day. At 10:00 p.m. the base agent timer will change the status of the student from "free" to "uncheck". At 04.00 am the base agent timer will change the status of students from "Uncheck" to "free", "on pesma" to "free" and "without permission" to be "banned".

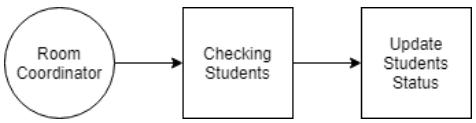


Figure 4. Usage scenario for change status of student.

Room coordinators can change the status of student from "uncheck" to "on pesma" or without permissions and can change the status of students from on board to without permissions or vice versa.

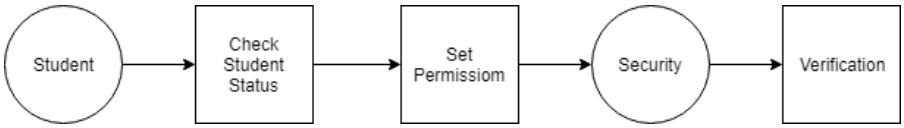


Figure 5. usage scenario for leaving the dormitory.

Figure 5 illustrates the permit process for leaving the dormitory by students. The system will check the status of students to be able to take permission. Students can take permission through an android device or take permission through the web base system. Students who want to leave must report to the security post to verify the information of the student who is has permitted before.

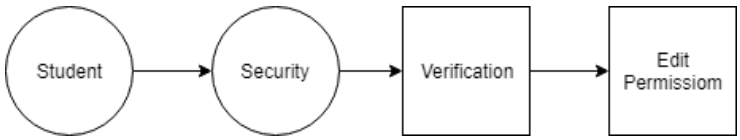


Figure 6. usage scenario for student go in the dormitory.

In Figure 6, the verification process flow is displayed so that the student is allowed to enter the dormitory.

2.2 Use Case Diagram

Based on the needs analysis on existing systems and interviews with several users, this information system can be classified into two types, for web sites and for the android devices. There are three users for the android device, which are: timer based agent who has access to change the status of student, room coordinators who have access rights to change the status of student and see permission for student, as well as student who have access rights to add and view permit applications. There are four users for the web page, which are: students who have access rights to view and take permission, room coordinators who have access rights to add, view and change data of students who take permission, security who have access rights to view the list of Student who take permission and checking if students who went out or entered the dormitory, the admin or staff has the right of access to be able to add, change, view and delete all information related to student's permit. The details of the user interaction are shown below.

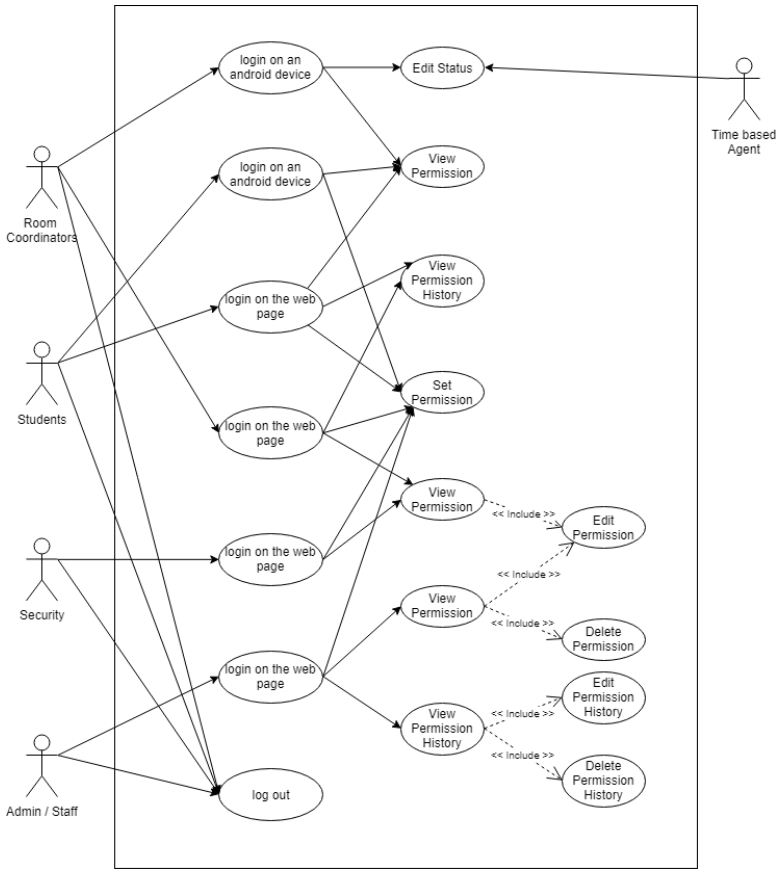


Figure 7. Use Case Diagram of the system.

2.3 Database Design

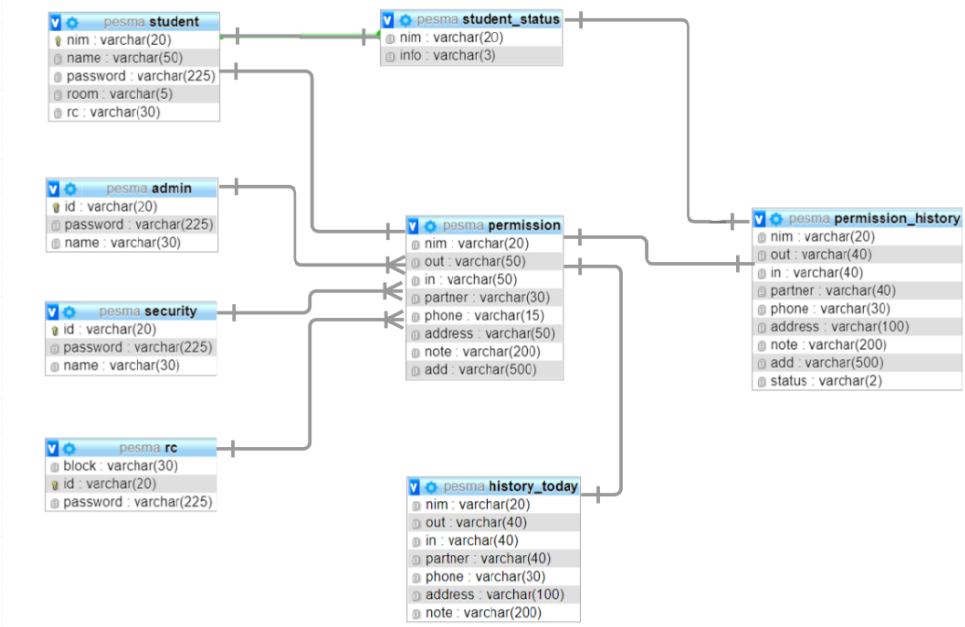


Figure 8. Database Design.

This system uses a MySQL database. There are several user tables on this system: student, rc, security and admin. Table student_status contains information from student. Table permission contain information on permission of the student including nim, time, friends, friend's phone number, place, additional notes and records of who added permission information or changed permit information. After the student has permission to return to the dormitory, permission information from table permission will moved to the history_today table and then moved to the permission_history table. The history_today table contains information about students who permit on certain days and will be deleted at 04.00 a.m. Table permission_history contains the entire history of student permission information.

2.4 User Interface Design

This information system is divided into two parts, which are android based and web based, the design of an Android-based information system is shown in the image below:

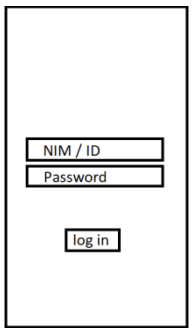


Figure 9. user interface design of login.

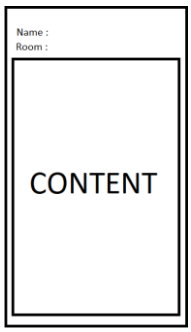


Figure 10. user interface design of set permission.

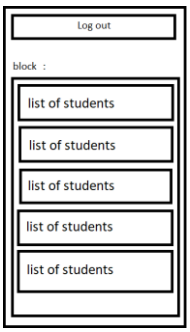


Figure 11. user interface design of view permission and edit information.

Figure 9 is a user interface design for log in menu Android device, Figure 10 is a user interface design for student users, content contains permission forms or permission information. Figure 11 shows the user interface for room coordinators. The list of students contains information related to students who are under the supervision of the room coordinator to facilitate the supervision process. The web-based user interface design is shown in the image below:

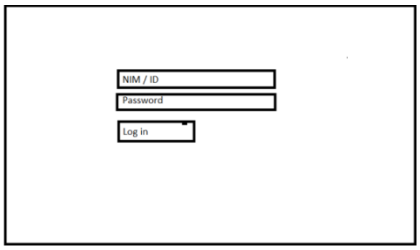


Figure 12. user interface design of login.

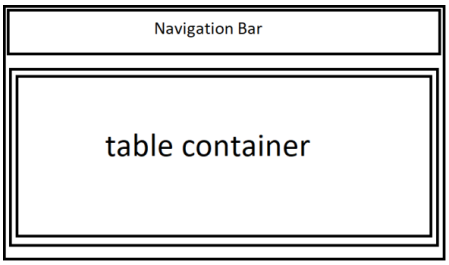


Figure 13. user interface design of View permission.

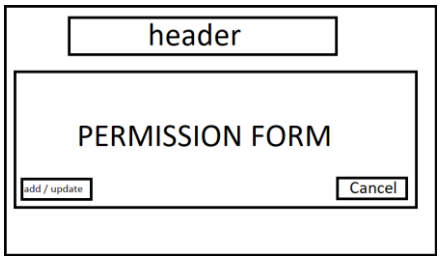


Figure 14. user interface design of set and edit permission.

Figure 12 is a user interface design for logging in to a web. Figure 13 is a user interface design that contains information on student permission. Figure 14 is a user interface design that serves to add or change information on student permission.

3. RESULT AND DISCUSSION

Tests on this information system have carried out using 2 stages, testing the system using black box testing and testing the satisfaction level of prospective users.

3.1 Black Box Testing

Black box testing is done to minimize execution errors from every function on the system. The test results of the execution of each function are shown in the table below:

3.1.1 Black Box Testing On Android Based System

Table 2. blackbox testing on room coordinators.

No	Case	Test Scenario	Output	Result
1	Login Test	The room coordinator enters the id, password and click the Log In button	The system displays basic information on the presence of student in the room coordinator block	Ok
2	View Permission Test	Room coordinators click on the student column that is permitted	The system displays detailed information about the student's permission	Ok
3	Edit student information	Room coordinator clicked on the student column	The system displays approval notifications to change information	Ok
4	Logout Test	Room coordinators click the Logout or back button	Room coordinator out of the system	Ok

Table 3. blackbox testing on students.

No	Case	Test Scenario	Output	Result
1	Login Test	Student enters nim, password and click the Log In button	The system displays the form of student permission or student permission information	Ok

. . . Table 3. blackbox testing on students.

2	Set Permission	Student fills out the student's permission form and clicks the submit button	The permission form is successfully saved, the system shows the information of the student's permission	Ok
3	Logout Test	Student clicks the Logout or back button	Student leaves the system	Ok

The login page is displayed when the user opens the application as shown in Figure 15. If the user fills in the NIM/ID and password as the room coordinator then the application will show the display as shown in Figure 16. Room coordinators can see the student information that has permitted as in Figure 17 and can change the student information as shown in Figure 18. If the user logs in as a student, the application will show the appearance of the permission form as shown in Figure 19 or if the student wants to permit, the application will show the student permission information as shown in Figure 20.

Figure 15. page for login.

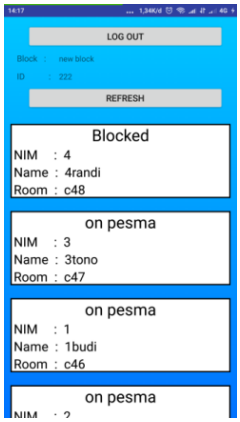


Figure 16. page for view students.

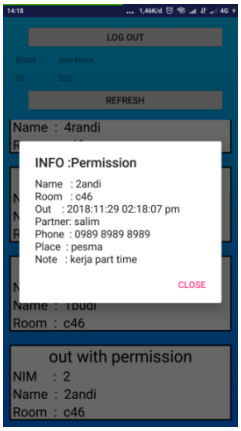


Figure 17. page for view permission.

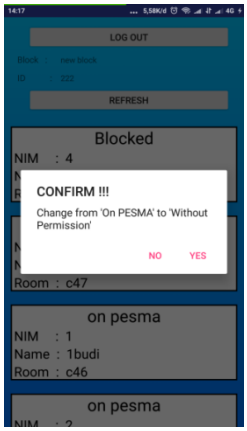


Figure 18. page for edit permission.

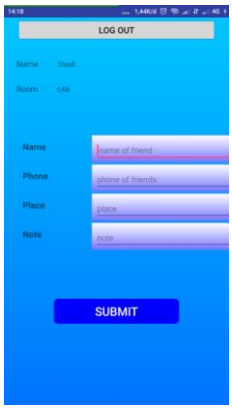


Figure 19. page for set permission.

Figure 20. Page for view permission.

3.1.2 Black Box Testing On Web Based System

Table 4. black box testing in admin users.

No	Case	Test Scenario	Output	Result
1	Login Test	The admin entered the id, password and clicked the Log In button	Displays information on students who are licensed	Ok

. . . Table 4. black box testing in admin users.

2	Set Permission Test	The admin clicked the Add Permission button on the navigation bar and filled out the student permission form	Permission is successfully added and displayed on the list of permitted students	Ok
3	View Permission Test	The admin clicked the Out With Permission button on the navigation bar	The system displays a list of permitted student	Ok
4	Edit Permission Test	The admin clicked the edit button on the student list that permits and changes the information of the student who is permitted	The system successfully changed the student information that is permitted	Ok
5		The admin clicks the arrive button	The system succeeds in adding the time of the student to return to the pesma and transfer all information of the student's permission to the history of the student's permission	Ok
6	View Permission History Test	The admin clicked on the Student button on the navbar and clicks the history button	The system displays a history of student permission	Ok
7	Edit Permission History Test	The admin clicked the edit button in the student permission history column that they want to change and changes the student's permission history	The system successfully changes the student permission history	Ok
8	Delete Permission History Test	The admin clicked the delete button in the student permission history column that you want to delete	The system removes student permission history	Ok
9	Log Out Test	The admin clicked the logout button on the admin bar	The admin logs out from the system	Ok

Table 5. black box testing in security users.

No	Case	Test Scenario	Output	Result
1	Login Test	The security entered the id, password and clicked the Log In button	Displays information on students who are licensed	Ok
2	Set Permission Test	The security clicked the Add Permission button on the navigation bar and filled out the student permission form	Permission is successfully added	Ok
3	View Permission Test	The security clicked the Home button on the navigation bar	The system displays a list of permitted student	Ok

. . . Table 5. black box testing in security users.

4	Edit Permission Test	The security clicked the edit button on the student list that permits and changes the information of the student who is permitted	The system successfully changes a list of permitted student	Ok
5		The security clicked the arrive button	The system succeeds in adding the time of the student to return to the pesma and transfer all information of the student's permission to the history of the student's permission	Ok
6	Log Out Test	The security clicked the logout button on the security bar	The security logs out from the system	Ok

Table 6. black box testing in room coordinator users.

No	Case	Test Scenario	Output	Result
1	Login Test	The room coordinator entered the id, password and clicked the Log In button	Displays information of the students	Ok
2	Set Permission Test	The room coordinator clicked the Add Permission button on the navigation bar and filled out the student permission form	Permission is successfully added	Ok
3	View Permission Test	The room coordinator clicked the Out With Permission button on the navigation bar	The system displays a list of permitted student	Ok
4	Edit Permission Test	The room coordinator clicked the edit button on the student list that permits and changes the information of the student who is permitted	The system successfully changed the student information that is permitted	Ok
5		The room coordinator clicked the arrive button	The system succeeds in adding the time of the student to return to the pesma and transfer all information of the student's permission to the history of the student's permission	Ok
6	View Permission History Test	The room coordinator clicked history button on student collom	The system displays a history of student permission	Ok
7	Log Out Test	The room coordinator clicked the logout button on the room coordinator bar	The room coordinator logs out from the system	Ok

Table 7. black box testing in student users.

No	Case	Test Scenario	Output	Result
1	Login Test	The student entered the nim, password and clicked the Log In button	The system displays a history of student permission	Ok
2	Set Permission Test	The student clicked the add permission button on the navigation bar and filled out the student permission form	Permission is successfully added	Ok
3	View Permission History Test	The student clicked home button	The system displays a history of student permission	Ok
4	Log Out Test	The room coordinator clicks the logout button on the room coordinator bar	The room coordinator logs out from the system	Ok

The login page is shown in Figure 22. In Figure 22 the user enters the nim or id and password to enter the system. The view permission page is shown in Figure 23. This page contains information about students who are permitting. In this view it contains several functions to delete and change the information of students who wants to permit.

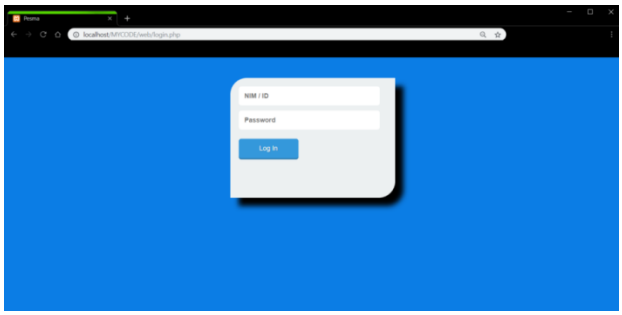


Figure 22. page of Login.

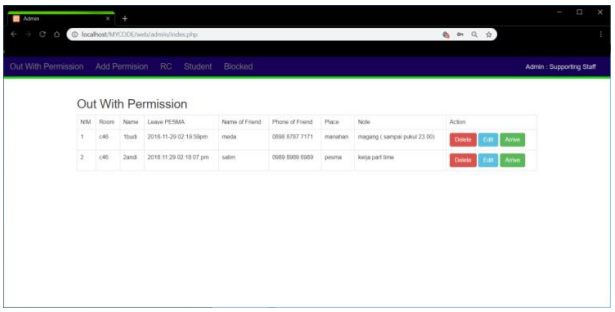


Figure 23. view list of permitted student.

The permission setting page is shown in Figure 24. In this page users can add or change student permissions. The appearance of adding or changing student permits has the same design. The view permission history page is shown in Figure 25. In this view the user can view, delete or change the student's permission history.

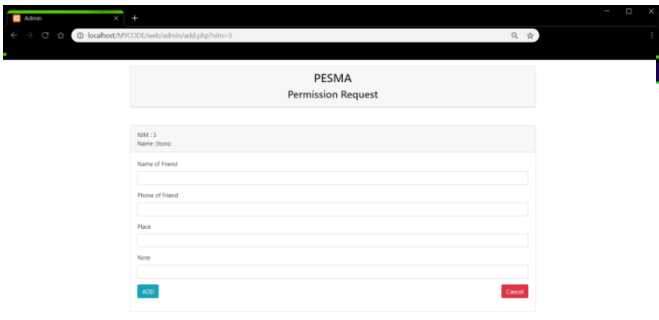
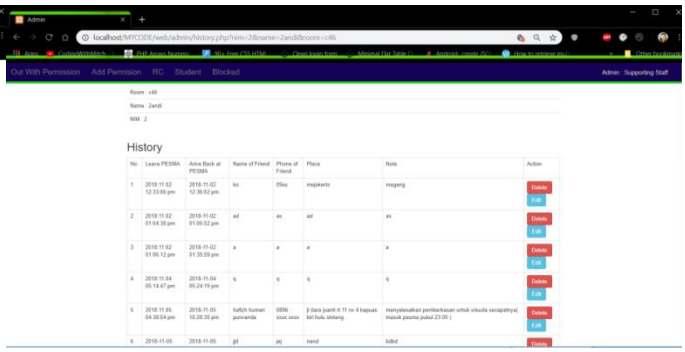


Figure 24. page for set permits.



Gambar 25. Page for view permission history.

3.2 Testing Satisfaction Level Of Prospective Users

Testing satisfaction level of prospective users is done through questionnaires. Prospective users consist of admin or supporting staff, student, security and room coordinator. The testing phase is done by asking prospective users to try the system that was created then asked to fill out the questionnaire that has been provided. The list of questions asked can be seen in table 7.

Table 8. Table Questionnaire Questions.

No.	Question code	Question
1	Q1	Is the display of this information system looks attractive?
2	Q2	Is the information system that has been created can be used easily by users?
3	Q3	Does the information system that has been created can facilitate the existing process?
4	Q4	Is the information system that has been made able to provide information about student who have permits well to each user?
5	Q5	Is the system created is according to user needs?

The questionnaire was distributed to 13 senior respondents. Respondents consisted of directors, 3 administrators, 2 securities, 2 room coordinators and 5 student. The results of the questionnaire are found in table 8.

Table 9 . Table results of filling out the questionnaire.

No	Question Code	Score				
		5	4	3	2	1
		SS	S	C	KS	STS
1	Q1	2	7	4		
2	Q2	5	7		1	
3	Q3	7	5	1		
4	Q4	5	7	1		
5	Q5	7	4	2		

Table 8 as follows: SS = Strongly Agree, S = Agree, C = Enough, KS = Less Agree, STS = Strongly Disagree. To find out the satisfaction presentation of prospective users, use the formula: $Z = \frac{q}{(\sum n)100\%}$. Z is the presentation of valuation, q is the sum of the valuations, and ∑n is the number of respondents. User satisfaction presentations are shown in table 9.

Table 10 . User satisfaction percentage table.

No	Question Code	Score				
		5	4	3	2	1
		SS	S	C	KS	STS
1	Q1	15.38 %	53.84 %	30.76 %		
2	Q2	38.46 %	53.84 %		7.69 %	
3	Q3	53.84 %	38.46 %	7.69 %		
4	Q4	38.46 %	53.84 %	7.69 %		
5	Q5	53.84 %	30.76 %	15.38 %		

Based on the first question, it can be concluded that 15.38% of respondents answered strongly agree and 53.84% of respondents answered agreeing that the display of information systems built was very interesting and the rest answered enough. On the second question, it can be concluded that 38.46% of respondents answered strongly agree and 53.84% of respondents answered agreeing that the information system created can be used easily and the rest answered less agree. On the third question, it can be concluded that 53.84% of respondents answered strongly agree and 38.46% of respondents answered agree that the information system built can facilitate the existing process and the rest answer enough. On the fourth question, it can be concluded that 38.46% of respondents answered strongly agree and 53.84% of respondents answered agreeing that the information system that was built could provide information well about the students who permit and the rest answered enough. On the fifth question, it can be concluded that 53.84% of respondents answered strongly agree and 30.76% of respondents answered agree that the information system built had met the needs of each user and the rest answered enough.

4. CONCLUTION

The result of the black box test shows the information system functionality that is made is able to function properly. Prospective user satisfaction testing shows that there are 40.00% on average respondents answered strongly agree, 46.15% on average respondents answered agree, 12.30% of respondents answered enough and 1.66% on average respondents answered disagree. Based on the results of the questionnaires that were filled in by selected respondents, most of the respondents answered agree with the information system that had been made. So that it can be concluded that the night attendance information system at the international Islamic school KH Mas Mansyur can show the information of student permits to each user and each user can access the data of student's permission directly and the information system built can also help the student checking process carried out by room coordinator.

This information system is not perfect therefore further development is needed in the future such as integrate with student prayer attendance, making the permission confirmation feature by the room coordinators or administrators, Administrators can monitor the room coordinator and improve the data security in this information system.

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